

An
Inaugural Essay
on
Hydrothorax,
submitted
to the Board and Medical Faculty
of the University of Pennsylvania,
for the degree of M.D.

by
Francis Lightfoot Lu
of
Virginia

1822

admitted March 28th 1822

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Hydrothorax or Dropsy of the Chest.

A preternatural collection of a serous fluid into any cavity of the body has been termed a dropsy.

The disease however presenting different appearances and requiring different modes of treatment as it occurs in one or another part, scologists have added to the general term dropsy, others denoting each particular modification of it. Thus we have Anasarca or general dropsy. Ascites when the collection takes place within the cavity of the abdomen, and Hydrothorax, or as it is sometimes called Hydrops Pectoris, when within that of the chest.

In the last form of the disease my observations in the following essay are chiefly directed. I say chiefly, for I am unavoidably led to make many remarks

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particularly when treating of its Pathology,
equally applicable to every form of the disease.

The term *Hydrothorax* is derived from two Greek words signifying water and chest.

Causes. The remote causes of Dropsy of the Chest are generally such diseases as by their long continuance or severity produce chronic or acute affections of some of the great viscera of the body, such as Intermitting fevers, jaundice, asthma, Pulmonary consumption, Pleurisy &c. Gout, and long habitual indulgence in intemperance by weakening the powers of the Stomach, and through it the system generally produce that condition of it, which Authors have termed the Cachectic, and which has been considered one of the most prominent causes of this disease.

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perhaps been the subject of more controversy than the proximate cause of dropsy. To any one acquainted with Physiology or Anatomy the fact is notorious that when the body is in a perfectly natural and healthy state, the exhalant vessels are continually pouring out a serous or watery fluid into every cavity of it, which is as quickly taken up and removed by the absorbents. This being the fact, and no one will deny that it is yet, we must consequently look to a loss of balance between the two as a cause of Dropsy. This perhaps is all that is necessary to be known as all agree that it is to the absorbents we are to direct our attention and remedies. Physiologists have however gone further, and have endeavoured to ascertain which of the two were in fault, some contending that it is a loss of action in the absorbents, others an increase of it in the

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exhalants. Not considering myself capable of offering an opinion on this subject I shall only state that the latter, I believe, is the one generally received by the Practitioners of our Country. Almost all agreeing, as I have already mentioned, that our attention and remedies are to be directed to the Absorbents, we might naturally conclude that aided in their views by the numerous and diversified articles which the Mat. Med. affords calculated for the purpose, the Practitioners of Medicine might have encountered Scurvy of the Chest under equal advantages with other diseases. This however is far from being the case, and is to be attributed in a great measure to the want of attention to the state of the system with which it may be associated. Whilst the English writers almost without an exception have considered Scurvy to be dependant on a cachectic or antiphlogistic dia-

The disease is a common one, and is
characterized by a general
fever, with a high temperature, and
a rapid pulse. It is often
accompanied by a cough, and
sometimes by a sore throat.
The disease is usually
fatal, and is often
difficult to treat. It is
caused by a virus, and
is often spread by
contact with the patient.
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them those of our own country on the con-
trary have almost as universally held it to be
a disease of high action or phlogistic charac-
ter. It is sometimes the case the truth lies
in medio for although it is unques-
tionably often, and perhaps most frequently
associated with the latter condition, yet it
may sometimes occur in an opposite one:
What else indeed than that can we look
for an explanation of the curious fact, men-
tioned particularly by Sæmmer that some
medicines which sometimes at most bene-
ficially, do not at all succeed in other in-
stances the most wished for. The Humoral
Pathologists were aware of this circum-
stance, and endeavoured to explain the con-
dition of the habit by particular names
relating to that condition. Hence the
terms decaplegmaria, Cachexy &c. These
however in consequence of the fanciful The-

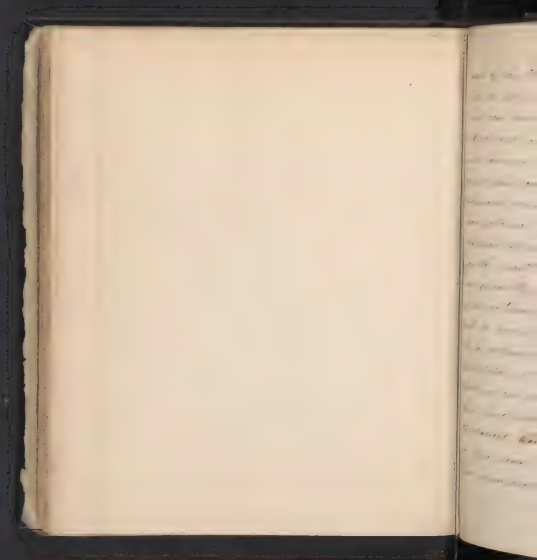
I think they will
 have a good
 chance of being
 successful in
 the end, but
 it is a long
 and arduous
 task, and I
 am not sure
 that they will
 be able to
 do it. I am
 sure, however,
 that they will
 try their best
 to do it.

one with which they were counselled have felt
 an acute disease. Dr Marshall a physician of
 great eminence who has written one of the best
 treatises extant on Dropsy has directed our atten-
 tion to the state of the urine as a test. From
 a number of experiments he was led to the
 following conclusions. That when it is coagu-
 lable like the serum of blood by heat or
 nitric acid it indicates increased action, when
 differing from that of sea water notwithstanding
 the smallness of quantity discharged it on
 the contrary indicates enfeebled action. That
 denatured diseased viscera is high coloured,
 and scanty, depositing a copious red sedi-
 ment but not at all affected by heat or
 nitric Acid. That the state of natural action
 may influence that of the urine is highly
 probable, and from the respectability of the
 author we may justly conclude it is wor-
 thy of trial.



John & Susan

but in my country is a matter of
no national consequence, and is
more a matter of the breast. It usually
commence with some degree of pain or un-
easiness about the epigastrium accompanied by
a difficulty of breathing on any exertion such
as walking up an eminence or stairs. I
do not think it is an independent af-
fection on the stem of the disease. There
is a strong tendency in some, in some instances
it is a little higher situated a rising and
sinking, returning when the patient is
in the lying position, or motion of the trunk.
The patient is sometimes unable to place
himself in a convenient posture, and if
it should be lying upon one side may
be more comfortable than on the other,
or on the back than either, owing to the
disease being more or less in one or other



and of the lungs is in fact - the presence of
 various kinds of pulmonary infection in the mouth
 and nose and upon the external surface
 of the chest and sides - the breath is harsh and
 labored in some instances attended with
 great pain and eating the sides of the al-
 teration manifest into action. The cough is
 now, however, dry and the expectoration is some-
 times streaked with blood - The voice is
 for the most part, somewhat diminished
 in quantity, with some degree of the
 more extensive of the hair is common at
 will be found to be good when the cough
 is an interesting work, is now even, and
 sometimes at the end of the cough
 there is an not uncommonly noted which
 has been known to happen that is when
 the patient has tried and reports as common
 as if a sense of suffocation which compels
 him immediately to place himself in an

not pasture. I often remarked that he had never seen this symptom attending any other affection of the chest, save that when it was added to others particularly the difficulty of breathing and adema-toma, but he had no doubt in concluding the existence of water in the chest.

Angina There are several diseases with which swelling of the chest may be confounded, such as Angina Pericardii, Pothoma, excessive enlargement of the heart and large Thoracitis and some affections of the stomach. From these however it may be distinguished by a careful examination into the history of the case. Two symptoms however have been mentioned as Pathognomonic. By the first we are told that if when the patient is erect we place our hand on the side of the Thorax and strike on the opposite side with the other a fluctuation may be perceived. But we are also informed we



rest of pieces, the Patient in a recent and
active and improves upon the hydropathic
pneumonia as far as will be produced.
Prognosis. The prognosis in this disease
is a difficult and uncomfortable. So much so
indeed that although the older writers appear
to have been well acquainted with the his-
tory and appearances an expectation still
has been left us now it is to hope as well as
regards the cure. Even Cullen himself seems to have been
of this opinion as he states that it seldom admits of
a cure so soon of resolution from remedies yet Rem-
scheidt that I have high authority for stating
that Hydrothorax under favourable circumstan-
ces and treated in the manner I shall here after
intend to lay down is as curable as the other
forms of Dropsy particularly Ascites.

Treatment. The first object which generally
arouses our attention in the commencement of the treat-
ment of Hydrothorax is the reduction of excessive action

It is not more of course which is recommended to be extracted
 more often as the pulse and pain in the breast would
 be increased. Coughing is an exertion and is to the
 great, and is even prejudicial to the throat by some.
 It should be always applied to the back. Besides
 all these remedies a blister should be applied to
 the chest and best place may be soon known. By
 this means a cure cannot be accomplished the next res-
 ort to be resorted to are emetics, and of these the
 extract of belladonna in the commencement is to be
 preferred. The Squill alone as an emetic has also
 been very successful in two or three cases. Some difference
 of opinion however has existed as to the mode in
 which it should be exhibited. Dr. Lister supposed if
 I am given in such doses as to effect the stomach
 vomits it. Another supposition was advanced that
 on the contrary maintained that it should be given
 so as to actively operate on the stomach. In reference
 to the following I do not know what I can say but
 I rather quote the words of Dr. Chapman relative



also to do it more to the point in respect to not
 either making or preparing an artificial diges-
 ion, but whether the peculiar powers of the
 agent in these cases are best retained by
 preserving the medicine to this extent. He
 further adds that judging from his own
 experience a slight degree of nausea is
 a just medium in its employment as
 is this absolutely necessary as he has seen
 it act most beneficially without having
 the slightest effect upon the stomach.
 Dr. Chapman made up administering it
 in water along with sodium in the fol-
 lowing proportions.

R. Siquis Spon.

Calomel ʒss. to be taken morn-
 ing and night in effluvia for 10 days.

He would allude to the agent
 in many of its properties the agent has
 been tried, and found highly useful.

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but seriously & use the disease has been brought
on by calomel.

no article of the Materia Medica
has ever, perhaps, had greater powers bestowed
upon it than the Vegetable as a remedy in
every form of Dropsy. Dr. Hamilton who has
written a treatise on it has however gone
farther in its praises in the particular
cases of the disease under consideration than
any other writer with whom I am acquainted.
He observes that after a trial of the most
of his medicines in such cases I never have
seen one, however advanced, or desperate, that
was not speedily relieved. He is indeed it has
a weak state of the system, affluence of fluids
in it is infinitely beyond what could have
been hoped from any medicine whatever, &
most astonishing to certainty of effect. Drop-
sy indeed would it be for numerous cases the
foundation of numerous diseases & of the

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a disease long continued essential and more
 or less of the most pernicious we have to
 contend with. That it is sometimes useful
 is found at the last of a supple to say,
 though, I have reason to believe that it should
 never be employed to the exclusion of the
 rest and balance. The Digitalis is now
 generally administered in three different
 forms substance, tincture and infusion. The
 dose of the first to commence with is about
 one grain, of the second five or six drops of
 the preparation called the saturated tincture
 is used, of that made according to the Lon-
 don Pharmacopoeia double the quantity is re-
 quired, and of the last a table spoonful.
 These doses should be daily increased closely
 watching their effects if during this use a
 membranous, linear pain of the heart,
 after over one eye, they should be imme-
 diately withheld & withering supposed that



where there was much strength or action of the system remaining it was unfavourable to its use in which opinion he is generally followed. Evacues from this known efficacy in the reduction of the chest, and their great power of increasing absorption might a priori be supposed useful in Hydrothorax. being however generally considered a dangerous remedy they are seldom resorted to.

Dr. Keil made a question whether a violent action in a disease in which the system is weak, and the patient is accompanied with great debility, can ever be injuriously removed. It is acknowledged by all Physiologists that there were a great many in the system it seems in a perfectly healthy state that it is taken on, and some in some cases of the emaciation. Some however have supposed that it has in some instances consisted of a very thin membrane that has fallen into one of the cavities of the

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body and thus produced dropsy itself. Dr. Cullen on this subject remarks, that he has found an entire abstinence from drinks by throwing the secretory organs of the kidneys into a state of contraction farther to diminish the quantity of urine discharged, and by that means increasing the effusion. He therefore lays it down as a rule, in which he is now generally followed, that when the quantity of water discharged is equal or nearly so to the quantity of water taken in, it will be advantageous to administer it freely. In support of his opinion we have the evidence of Drs G. Baker and J. Milman who have declared they have cured dropsy by this means. As to the kind of drinks water alone or combined with some of the vegetable acids is to be preferred. The next object is to restore tone to the system, and thus prevent a return of the disease. Bark and the Chalybeates are

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usually selected for this purpose; though Dr Blackall thinks there may be cases in which the bitter vegetable tonics will answer better.

One thing however should be observed never to commence their use too soon least they should reproduce the disease. If during the tonic course of treatment the disease should have a tendency to return it would be proper to commence again with the use of diuretics, and here the potash in combination with some of the bitter tonics as recommended by Dr R. Pearson are to be selected.

Diet. With regard to diet during the convalescence it should be nourishing, but not stimulating or heating, and the patient should never be allowed to take much into his stomach at a time.

Finis

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